SEQUENCE LISTING

<110>   Nucleonics, Inc.
        Pachuk, Catherine
        Satishchandran, C.
        Zurawksi, Vincent
        Mintz, Liat

<120>   Conserved HBV and HCV Sequences Useful for Gene Silencing

<130>   26788-024

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<170>   PatentIn version 3.3

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watgccygga vatttgggcg tgcccccgcr agacygctag ccgagtagyg ttgggtygcg   240

aaaggccttg tggtactgcc tgatagggtg cttgcgagtg ccccgggagg tctcgtagac   300

cgtgcahcat gagcacrmwt cchaaacchc aaagaaaaac caaamgwaac accaaccgyc   360

gcccacagga cgthaagttc ccgggyggyg ghcagatcgt tggbggagth tacbtgttgc   420

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aatacgtgac gtagaaagta ataatttctt gggtagtttg cagttttaaa attatgtttt   180

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<210>  16
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<210>  17
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<212>  DNA
<213>  Artificial
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<220>
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<210> 18
<211> 51
<212> DNA
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<220>
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<210> 19
<211> 51
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<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1907-1927
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<400> 19
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<210> 20
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<220>
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cagtatggat cggcagagga gagagaactt ctcctctgcc gatccatact g   51

<210> 21
<211> 51
<212> DNA
<213> Artificial

<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1943-1963
      in GenBank accession # V01460

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<210> 22
<211> 51

<212> DNA
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<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1991-2011
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<210> 23
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<212> DNA
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<220>
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<210> 24
<211> 51
<212> DNA
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<210> 25
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<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<220>
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<210> 31
<211> 29
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<220>
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<210> 33
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<210> 35
<211> 29
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<220>
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<210> 36
<211> 29
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<212> DNA
<213> Artificial

<220>
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ctggcctctc tgcagatcaa g   21

<210> 38
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<210> 39
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<211> 20
<212> DNA
<213> Artificial

<220>
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<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 41
tagctgtgaa aggtccgtga g   21

<210> 42
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<210> 43
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

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<210> 44
<211> 21
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<213> Artificial

<220>
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<210> 45
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<210> 46
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<400> 46
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<211> 323
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<213> Artificial

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<223> T7 polymerase-based eiRNA

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ccggtgagta caccggaatt gccaggacga ccgggtcctt tcttggatga acccgctcaa   180

tgcctggaga tttgggcgtg cccccgcgag actgctagcc gagtagtgtt gggtcgcgaa   240

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<210> 49
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<212> DNA
<213> Artificial

<220>
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<400> 49
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<210> 50
<211> 21
<212> DNA
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<220>
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<400> 50

cgtctgcgag gcgagggagt t   21

<210> 51
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<212> DNA
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<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 807-827 in
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<400> 51
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<210> 53
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<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1299-1319
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<210> 54
<211> 21
<212> DNA
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<220>
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<400> 54
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<210> 55
<211> 21
<212> DNA
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<400> 55
ttccgcagta tggatcggca g   21

<210> 56
<211> 21
<212> DNA
<213> Artificial

<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1912-1932
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<400> 56
cagtatggat cggcagagga g   21

<210> 57
<211> 21
<212> DNA
<213> Artificial

<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 1943-1963
      in GenBank accession # V01460

<400> 57
tccacgcatg cgctgatggc c   21

<210> 58
<211> 21
<212> DNA
<213> Artificial

<220>
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      in GenBank accession # V01460

<400> 58
tgcgtcagca aacacttggc a   21

<210> 59
<211> 21
<212> DNA
<213> Artificial

<220>
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<400> 59
aaaacgccgc agacacatcc a   21

<210> 60
<211> 21
<212> DNA
<213> Artificial

<220>

<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 2912-2932
      in GenBank accession # V01460

<400> 60
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<210> 61
<211> 21
<212> DNA
<213> Artificial

<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 2919-2939
      in GenBank accession # V01460

<400> 61
aagtccacca cgagtctaga c   21

<210> 62
<211> 21
<212> DNA
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<220>
<223> eiRNA encoding sequence mapping to HBV-AYW coordinates 799-779 in
      GenBank accession # V01460

<400> 62
gcctcgcaga cgaaggtctc a   21

<210> 63
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 63
gctaaacact ccaggccaat a   21

<210> 64
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 64
tcctttggtg gctccatctt a   21

<210> 65
<211> 21
<212> DNA
<213> Artificial

<220>

<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 65
gctccatctt agccctagtc a   21

<210> 66
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 66
tcttagccct agtcacggct a   21

<210> 67
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 67
cctagtcacg gctagctgtg a   21

<210> 68
<211> 21
<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 68
ctagtcacgg ctagctgtga a   21

<210> 69
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<212> DNA
<213> Artificial

<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 69
cgtgagccgc ttgactgcag a   21

<210> 70
<211> 21
<212> DNA
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<220>
<223> siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400> 70

gctgatactg gcctctctgc a   21

<210>   71
<211>   21
<212>   DNA
<213>   Artificial

<220>
<223>   siRNA encoding sequence mapping to X region of Hepatitis C Virus

<400>   71
actggcctct ctgcagatca a   21

<210>   72
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<212>   DNA
<213>   Artificial

<220>
<223>   HCV5M-5.1 dsRNA

<400>   72
aaaggccttg tggtactgcc t   21

<210>   73
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<212>   DNA
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<220>
<223>   HCV5M-5.3 dsRNA

<400>   73
ttgtggtact gcctgatagg g   21

<210>   74
<211>   21
<212>   DNA
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<220>
<223>   HCVXM-13 dsRNA

<400>   74
tagctgtgaa aggtccgtga g   21

<210>   75
<211>   26
<212>   DNA
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<220>
<223>   HCVXM-34 dsRNA

<400>   75
atcttagccc tagtcacggc tagctg   26

<210> 76
<211> 27
<212> DNA
<213> Artificial

<220>
<223> HCVXM-35 dsRNA

<400> 76
tagtcacggc tagctgtgaa aggtccg   27

<210> 77
<211> 21
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<400> 77
cctgtgagga actactgtct t   21

<210> 78
<211> 21
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<213> Hepatitis C virus

<400> 78
acgcagaaag cgtctagcca t   21

<210> 79
<211> 21
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<400> 79
cgtctagcca tggcgttagt a   21

<210> 80
<211> 21
<212> DNA
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<400> 80
gtctagccat ggcgttagta t   21

<210> 81
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<212> DNA
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<400> 81
ctcccctgtg aggaactact gtctt   25

<210> 82
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<400> 82

gaggaactac tgtcttcacg cagaa   25

<210>   83
<211>   27
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<400>   83
gtgaggaact actgtcttca cgcagaa   27

<210>   84
<211>   21
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<213>   Hepatitis C virus

<400>   84
gagccatagt ggtctgcgga a   21

<210>   85
<211>   21
<212>   DNA
<213>   Hepatitis C virus

<400>   85
gaaccggtga gtacaccgga a   21

<210>   86
<211>   21
<212>   DNA
<213>   Hepatitis C virus

<400>   86
accggtgagt acaccggaat t   21

<210>   87
<211>   25
<212>   DNA
<213>   Hepatitis C virus

<400>   87
gggagagcca tagtggtctg cggaa   25

<210>   88
<211>   21
<212>   DNA
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<400>   88
ggccttgtgg tactgcctga t   21

<210>   89
<211>   21
<212>   DNA
<213>   Hepatitis C virus

<400>   89

gccttgtggt actgcctgat a   21

<210> 90
<211> 21
<212> DNA
<213> Hepatitis C virus

<400> 90
gtactgcctg atagggtgct t   21

<210> 91
<211> 27
<212> DNA
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<400> 91
aaggccttgt ggtactgcct gataggg   27

<210> 92
<211> 27
<212> DNA
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<400> 92
cgaaaggcct tgtggtactg cctgata   27

<210> 93
<211> 27
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<400> 93
cttgcgagtg ccccgggagg tctcgta   27

<210> 94
<211> 21
<212> DNA
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<400> 94
atcactcccc tgtgaggaac t   21

<210> 95
<211> 21
<212> DNA
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<400> 95
ttcacgcaga aagcgtctag c   21

<210> 96
<211> 21
<212> DNA
<213> Hepatitis C virus

<400> 96

tagccatggc gttagtatga g   21

<210>   97
<211>   25
<212>   DNA
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<400>   97
atcactcccc tgtgaggaac tactg   25

<210>   98
<211>   27
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<400>   98
atcactcccc tgtgaggaac tactgtc   27

<210>   99
<211>   25
<212>   DNA
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<400>   99
aactactgtc ttcacgcaga aagcg   25

<210>   100
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<212>   DNA
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<400>   100
aactactgtc ttcacgcaga aagcgtc   27

<210>   101
<211>   21
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<400>   101
atagtggtct gcggaaccgg t   21

<210>   102
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<212>   DNA
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<400>   102
tagtggtctg cggaaccggt g   21

<210>   103
<211>   21
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<400>   103

aaggccttgt ggtactgcct g   21

<210>   104
<211>   21
<212>   DNA
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<400>   104
aaggccttgt ggtactgcct g   21

<210>   105
<211>   21
<212>   DNA
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<400>   105
tactgcctga tagggtgctt g   21

<210>   106
<211>   27
<212>   DNA
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<400>   106
ttgtggtact gcctgatagg gtgcttg   27

<210>   107
<211>   25
<212>   DNA
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<400>   107
tactgcctga tagggtgctt gcgag   25

<210>   108
<211>   24
<212>   DNA
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<400>   108
tagggtgctt gcgagtgccc cggg   24

<210>   109
<211>   27
<212>   DNA
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<400>   109
ttgcgagtgc cccgggaggt ctcgtag   27